Recombinant Human NPM1, His-tagged

Cat. No. NPM1-54H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human NPM1 protein was expressed in E.coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
Description	NPM1 or nucleophosmin (nucleolar phosphoprotein B23, numatrin) is a ubiquitously expressed nucleolar protein that shuttles between the nucleus and cytoplasm which is implicated in multiple functions, including ribosomal protein assembly and transport, control of centrosome duplication, and regulation of the tumor suppressor ARF NPM1 mutations that relocalize NPM1 from the nucleus into the cytoplasm are associated with development of acute myeloid leukemia (AML). NPM1 is a target of CDK2/cyclin E in the initiation of centrosome duplication. NPM1 is involved in several processes including regulation of the ARF/p53 pathway. NPM1-ALK acts as a tumor suppressor by reciprocally inhibiting NPM1-ALK expression.
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~40 kDa
Applications	Western Blot
Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities

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	after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	NPM1 nucleophosmin (nucleolar phosphoprotein B23, numatrin) [Homo sapiens]
Official Symbol	NPM1
Synonyms	NPM1; nucleophosmin (nucleolar phosphoprotein B23, numatrin); nucleophosmin; B23; NPM; nucleolar phosphoprotein B23; nucleophosmin/nucleoplasmin family; member 1; numatrin; nucleolar protein NO38; nucleophosmin/nucleoplasmin family, member 1; MGC104254;
Gene ID	4869
mRNA Refseq	NM_001037738
Protein Refseq	NP_001032827
MIM	164040
UniProt ID	P06748
Chromosome Location	5q35.1
Pathway	Aurora B signaling, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; Deposition of New CENPA-containing Nucleosomes at the Centromere, organism-specific biosystem; Disease, organism-

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	specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem;
Function	NF-kappaB binding; NF-kappaB binding; RNA binding; Tat protein binding; histone binding; nucleic acid binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein kinase binding; ribosomal large subunit binding; ribosomal small subunit binding; transcription coactivator activity; unfolded protein binding; unfolded protein binding;

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